

24.2500 (1143,1144,1482)

P/045/60/019/004/005/009

B022/B070

AUTHOR: Sredniawa, Bronisław

TITLE: An Elementary Derivation of the Formulas for Multipole Radiation

PERIODICAL: Acta Physica Polonica, 1960, Vol. 19, No. 4, pp. 477 - 485

TEXT: In recent years the theory of multiple radiation has been extensively developed, particularly for the need of nuclear physics. Considering the methods of the modern theory of multiple radiation rather complicated, the author derived the formulas for the strength of the electromagnetic field in an elementary and straightforward way by simplifying and generalizing a method of Rubinowicz and Sommerfeld (Refs. 5 and 6), assuming that the electromagnetic radiation is produced by electric charges and currents as well as by electric and magnetic polarizations varying harmonically in time. He divides the electromagnetic field into a "charge-dependent" part and a "magnetization-dependent" part. For the first part of the field, the retarded potentials are expanded in a series and again divided into two parts representing

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An Elementary Derivation of the Formulas
for Multipole Radiation

P/045/60/019/004/005/009
B022/B070

separately electric and magnetic multipole radiations. After the expressions for the field strengths of the "charge-dependent" part have been found, the field strengths for the "magnetization-dependent" part may be found without calculation. The method makes no explicit use of the group theory and spherical harmonics. The formulas obtained are valid in the wave zone, and are direct generalizations of the Rubinowicz-Sommerfeld formulas for dipole and quadrupole radiations. Formulas for the electric and magnetic intensities of multipole radiation are also given in tensor form, and are seen to be direct generalizations of the formulas for the lowest multiple radiations. The author thanks Professor Jan Weyssenhoff and A. Kowalska for interesting discussions and remarks.
There are 6 references.

ASSOCIATION: Institute of Theoretical Physics, Jagellonian University,
Kraków

SUBMITTED: December 31, 1959

Card 2/2

SREDNIAWA, Bronislaw

Mass difference of the proton and neutron. Pt. 2. Postepy fizyki 12
no.1:39-53 '61.

1. Katedra Fizyki Teoretycznej Uniwersytetu Jagiellonskiego, Krakow.

SREDNIAWA, Bronislaw

On the 20th anniversary of the death of Prof. Witold Wilkosz. Postepy
fizyki 12 no.4:389-391 '61.

1. Instytut Fizyki Uniwersytetu Jagiellonskiego, Krakow.

21720

P/045/61/020/003/002/004
B133/B228

24.6/00

AUTHOR: Sredniawa, Bronislaw

TITLE: Widths of annihilation lines in mono- and divalent metals

PERIODICAL: Acta Physica Polonica, v. 20, no. 3, 1961, 235-241

TEXT: In a paper entitled "On the breadths of annihilation lines in copper and gold" [Helv. phys. Acta, 33, 131 (1960)], henceforth referred to as I, a method of investigation of the widths of annihilation lines of gamma rays arising in the annihilation of electrons and positrons in metals has been proposed by the author. The positrons produced in the β -decay of Cu⁶⁴ are slowed down in a sample of metal and then annihilate with electrons. In I, theoretical line widths of annihilations in the regions of different electron shells of the atom of the annihilation with conduction electrons are calculated. Contributions from the process of different regions where annihilation may take place, to the real annihilation process are then chosen in a manner to get, by their superposition, such a shape of the theoretical annihilation line that would be the best

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Widths of annihilation...

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approximation of the experimental results. The present paper gives a detailed analysis of Stewart's experimental results [7] (see list of English references). Stewart's measurements, which were performed by the method of angular correlations of the photons produced in the process of annihilations, comprise the greatest number of elements. The analysis concerns 16 metals of groups Ia, Ib, IIa, and IIb of elements. It starts with the determination of the average momentum of the mass center of annihilating particles \bar{p} and the reduced average momentum of the mass center $\bar{p}_{m.c.} = \bar{p}/mc$. From $\bar{p}_{m.c.}$ the dispersion of the Gaussian curve corresponding to this average momentum is derived. Results of these calculations for the 16 metals analyzed are given in columns 3 and 4 of Table 1. In column 5, the maximum energy ϵ'_0 of the conduction electrons is given. From ϵ'_0 the corresponding reduced momentum P' is calculated, and the curves of annihilation of conduction electrons with positrons at rest are drawn according to a formula for I_c (I, p. 146), where instead of K

$$I_c^{(\text{norm})} = 1 - \left(41.1 \frac{|4\lambda|}{\sqrt{\epsilon'_0}} \right)^3 \quad (2)$$

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Widths of annihilation...

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is put as variable. In order to get the contribution of annihilations in ions, the maxima of the charge density are taken from Hartree diagrams of calculables, from which the annihilation curves for different shells are calculated according to [I (21) and (26)]. Then a curve was chosen which fits the experimental line best. Such experimental curves are shown, e.g., in Fig. 1. The contributions of different electron groups in the process of annihilation are given in Table 2. Because of the approximations assumed in I, the values given in Table 2 have only orientational meaning. It is seen that for light metals positrons annihilate almost exclusively with conduction electrons. A particular position in Table 2 is occupied by the metals Cu, Ag, Au, where annihilation takes place in outer shells of the ion. The results obtained for these metals and heavier metals of group IIb may be interpreted in such a way that the simple Sommerfeld model of the metal is not valid, and the conduction electrons have energies near the energies of bound electrons in outer shells of ions. Then, a clear distinction between these classes of electrons and their contributions to the annihilation process is not possible. There are 4 figures, 4 tables, and 7 non-Soviet-bloc references. The 3 most recent references to English-language publications read as follows: Ferrel, R. A., Rev. mod.

X

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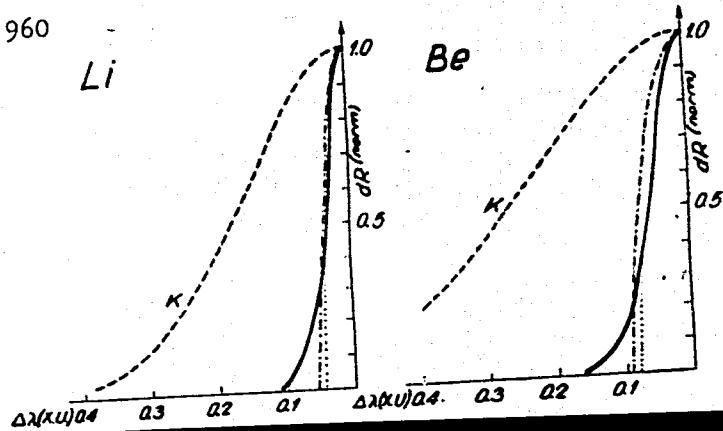
P/045/61/020/003/002/004
B133/B228

Widths of annihilation...

Phys., 28, 308 (1956), Sredniawa, B., Helv. Phys. Acta, 33, 131 (1960),
Stewart, A. T., Canad. J. Phys., 35, 168 (1957).

ASSOCIATION: Institute of Theoretical Physics, Jagellonian University,
Cracow

SUBMITTED: September 29, 1960



Card 4/8

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652730011-5

SREDNIAWA, Bronislaw

"Theoretical physics" by A.S.Kompaniejec. Reviewed by Bronislaw
Sredniawa. Postepy fizyki 13 no.3:361-362 '62.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652730011-5"

SREDNIAWA, Bronislaw

"With the rocket to the moon" by W.J. Lewantowski. Translated
into Polish by Włodzimierz Jodłowski, Karol Makowski, Alfred
Windholz. Reviewed by Bronislaw Sredniawa. Postepy fizyki.
13 no.4:497 '62.

SREDNIAWA, Bronislaw

"Theory of the atomic nucleus" by A.S.Dawydow [Davydov, A.S.].
Reviewed by Bronislaw Sredniawa. Postepy fizyki 13 no.6:681
'62.

SREDNIAWA, Bronislaw.

"Transformations of atomic nuclei" by W.Goldanski [Gol'danskiy, V.],
E.Lejkin [Leykin, Ye.]. Reviewed by Bronislaw Sredniawa. Postepy
fizyki 13 no.6:682 '62.

P/047/63/014/001/001/003
D256/D308

AUTHOR: Sredniawa, Bronislaw

TITLE: The mass-differences of mesons and barions

PERIODICAL: Postępy Fizyki, v. 14, no. 1, 1963, 51-59

TEXT: The perturbation calculation of mass-differences in mass-multiplets by N. Straumann (Helv. Phys. Acta, 35, 113, 1961) is reviewed: The mass-differences for π , K, Σ and Ξ were calculated using the Feynman-Dyson perturbation method in the $e^2 f^2$ approximation (f being the pseudoscalar or pseudovector coupling constant) neglecting the recoil effects. It is stated that the Strauman calculation is based upon the method employed by L.O'Raiifeartaigh, B. Sredniawa and Ch. Terreaux (Nuovo Cimento, Ser. 10, v. 14, 376, 1959) for calculating the proton-neutron mass-difference. The fourth-order perturbation calculation is discussed of the proton-neutron mass-difference calculation by T. Okui (Nucl. Phys., v. 32, 401, 1962) using the cut-off method and renormalization of the coupling constants. The results are similar to those obtained by O'Raiifeartaigh,

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The mass-differences ...

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Sredniawa and Terreaux except that Okui's work does not exclude the possibility of explaining the proton-neutron mass-difference in terms of the pseudoscalar coupling scheme. However, there is evidence in favor of the pseudovector coupling rather than pseudoscalar. The photon cut-off radius for pseudovector coupling is appreciably smaller than the pseudoscalar cut-off radius obtained by Okui. Conclusion: the non-local theory of Heitler and Arnous gives a finite and negative value for the photon self-energy. This shortcoming can be overcome by introducing higher-order terms into the Hamiltonian of the interaction, but this procedure has no justification in the present field theories. There are 6 figures, 2 tables and 9 references.

ASSOCIATION: Katedra Fizyki Teoretycznej Uniwersytetu Jagiellonskiego, Krakow (Department of Theoretical Physics, Jagiellonian University, Cracow)

Card 2/2

SREDNIAWA, Bronislaw

"Physical properties of crystals, their representations by tensors and matrices" by J.F. Nye. Reviewed by Bronislaw Sredniawa. Postepy fizyki 14 no.2:263 '63.

COCCONI, Giuseppe; SREDNIAWA, Bronislaw [translator]
High-energy physics. Postepy fizyki 14 no. 4: 393-414
'63.
1. Cornell University, Ithaca, N. Y. (for Cocconi).

SREDNIAWA, Bronislaw; WEYSSENHOFF, Jan

On the approximate applicability of the Schrödinger equation to
nonisolated systems. Acta physica Pol 23 no.2:177-188 F '63.

1. Institute of Theoretical Physics, Jagellonian University,
Krakow.

SREDNIAWA, Bronislaw

"Introduction to the new theory of particles of Jean Vigier and his collaborators" by Louis de Broglie. Reviewed by Bronislaw Sredniawa. Acta physica Pol 23 no.2:273 F '63.

SREDNIAWA, Bronislaw

*Lessons on the fundamental field" by Jean Louis Destouches.
Reviewed by Bronislaw Sredniawa. Acta physica Pol 23 no.2:274
F '63.

SREDNIAWA, Bronislaw

"Group theory and its applications to physical problems" by Morton Hamermesh. Reviewed by Bronislaw Sredniawa. Acta physica Pol 23 no.3:411 Mr '63.

SREDNIAWA, Bronislaw

"Linear representations of the Lorentz group" by M.A. Naimark.
Reviewed by Bronislaw Srednickiwa. Acta physica Pol 23 no.3:412
Mr '63.

BORELOWSKI, Zbigniew; SREDNIAWA, Bronislaw

Realativistic bipoint as the model of elementary particle.
Acta physica Pol 25 no. 4:609-616 Ap '64.

1. Institute of Theoretical Physics, Jagiellonian University, Krakow.

SREDNIAWA, Jerzy, mgr inz.; MIELECKI, Tadeusz, doc. dr inz.; NOWAK, Zygfryd,
mgr inz.; ROMANCZYK, Emanuel, mgr inz.; TOBICZYK, Andrzej, mgr inz.;
GAS, Bogdan, mgr inz.

Industrial experiment of applying starch flocculation as performed
in the processing plant of the Knurow mine. Wiadom gorn 16 no.4:
113-117 Ap '65.

1. Separator Designing Office, Katowice (for Sredniawa). 2. Central
Mining Institute, Katowice (for Mielecki, Nowak, Romanczyk, Tobiczky).
3. Knurow mine (for Gas).

MYSAKOWSKA, Helena; GRODZKI, Stanislaw; PRZEMYSKA, Barbara;
SZAREWICZ, Wieslawa; SREDNICKA, Danuta

Comparison of efficiency of large and small doses of isoniasid
in combined treatment in pulmonary tuberculosis. Pol. tyg. lek.
20 no.16:562-564 19 Ap '65.

1. Z Katedry Ftyzjatrii AM w Lublinie (Kierownik: doc. dr. med.
Helena Mysakowska).

MYSAKOWSKA, Helena; PIETRON, Eugeniusz; SREDNICKA, Danuta; GRODZKI, Stanislaw;
CYGAN, Edward; ROZYNSKA, Maria; SMAJKIEWICZ, Ludwik

Results of examinations of students 18 months after the conclusion
of chemoprophylaxis. Gruzlica 33 no.7:601-604 Jl '65.

1. Z Katedry Ftizjatrii AM w Lublinie (Kierownik: doc. dr.
H. Mysakowska) i z Akademickiej Poradni Przeciwgruzliczej w
Lublinie (Kierownik: lek. E. Pietron).

SHMATCOVA, Z. I.; SREDNIKOV, M. I.

New types of lubricating coolants. Nefteper. i neftekhim.
no. 3345-46 '63. (MIRA 17:9)

1. Rostovskiy-na-Donu cpytnyy neftemaslozavod.

SHMATOVA, Z.I.; SHADMIKOVA, N.I.

New types of lubricating coolants. Nefteper. i neftekhim. no.3:
45-46 '63. (MIRA 17:9)

1. Rostovskiy-na-Donu oilytnyy neftemaslozavod.

PA 19T30

SREDNIIY, I. YE.

USSR/Wave Mechanics
Wave analysis

Sep 1946

"Wave Processes in Non-uniform Lines," I. Ye.
Sredniy, Candidate of Mech Sci, 19 pp

"Radiotekhnika" Vol I, No 6

Discussion of the steady state of a non-uniform
non-dissipative line, the parameters per unit
length of which vary with the x coordinate. A
classification of non-uniform lines is suggested,
based on the analysis of invariants of the dif-
ferential equations for current and voltage.

19T30

8(0), 9(0)

SOV/112-58-3-4929

Translation from: Referativnyy zhurnal. Elektrotehnika, 1958, Nr 3, p 224 (USSR)

AUTHOR: Sredniy, I. Ye.

TITLE: Fundamentals of a Pulse-Analysis Method
(Osnovy metoda impul'snogo analiza)

PERIODICAL: Tr. Odesskogo elektrotekhn. in-ta svyazi, 1956, Nr 4(14), pp 7-24

ABSTRACT: A simple method is set forth for solving pulse-technique problems; the method is based on expansion of a periodic function in a rapidly converging series that has the powers of an elementary discontinuous periodic function. A notion of commutated numbers is introduced. A mathematical apparatus is developed for notating the discontinuous periodic functions and for performing various operations with them involving the theory of commutated numbers. Examples of application of the above method to solve concrete problems are cited. Any periodic function is represented as a sum of discontinuous periodic functions that correspond to forward and backward motions.

L.S.Sh.

Card 1/1

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S/194/61/000/008/065/092
D201/D304

9,2586

AUTHORS:

Sredniy, I.Ye. and Maslov, Ye.P.

TITLE:

The theory of a multivibrator with a capacitance in the cathode circuit

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961. 10, abstract 8 176 (Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, 1960, v. 3, 45-50)

TEXT:

The cathode coupled multivibrators nowadays take a prominent place among the multivibrator circuits. The analysis is given of the flip-flop type circuit differing by the presence of parallel connected resistance and capacitance in the cathode circuits of both valves. The special feature of circuits of this type is that the valves are cut-off in their cathode circuits. The circuit permits the oscillation frequency to be varied from a few cycles to 100 kc/s and at small values of capacitances the oscillations are nearly sinusoidal. The system is described by the equations of the

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D201/D304

The theory of a multivibrator...

type

$$x'(1 - x^2) - 2\delta(\beta x + \frac{x^3}{3}) = 0.$$

This type of equation also describes the free oscillations in a dynatron multivibrator and in several other circuits the integration of the above equation is carried out by conversion into partial fractions, so that the free oscillation conditions, period, amplitude and shape of the oscillations are determined. The multivibrator generates nearly saw-tooth waveforms. 2 references. [Abstracter's note: Complete translation]

Card 2/2

SREDNIY, I.Ye.; MASLOV, Ye.P.

One problem in the theory of self-oscillation. Izv.vys. ucheb.
zav.; radiofiz. 4 no.6:1138-1148 '61. (MIRA 14:12)

1. Odesskiy elektrotekhnicheskiy institut svyazi.
(Oscillations)

KOLOMIYCHUK, L.M.; SREDNIY, I.Ye., dots., red.

[Outline of lectures in a course on the theoretical principles of radio engineering, "The generator with transformer feedback"] Konspekt lektsii po kursu teoreticheskikh osnov radiotekhniki "Generator s transformatornoi obratnoi sviaz'iu. Odessa, Odesskii elektrotekhn. in-t sviazi, 1963. 21 p. (MIRA 17:9)

SREDNIY, Ivan Yevtikhievich, kand. tekhn. nauk; LITVINENKO, O.N.,
kand. tekhn. nauk, retsenzent; SKUBCHENKO, S.A., inzh.,
red. izd-va; BEREZOVYY, V.N., tekhn. red.

[Steady-state modes in linear and nonlinear networks
impulse analysis] Stataionarnye rezhimy v lineinykh i ne-
lineinykh tsepiakh; impul'snyi analiz. Kiev, Gostekhizdat,
(MIRA 16:7)
USSR, 1963. 167 p.
(Electric networks) (Pulse circuits)

AUTHOR:
TITLE:

GOTLIB, Yu.Ya. SREDNYAYA, V.
Internal Rotation in Polymer Chains and its Physical Properties.
The Average Anisotropy of the Molecules of Linear Polymers with
Symmetric Potential of Damped Internal Rotation.
(Vnutrenneye vrashcheniye v polimernykh tsepyakh i ikh fizicheskiye
svoystva. V.Srednyaya anizotropiya molekul lineynykh polimerov
s simmetrichnym potentsialnom zatorozhennogo vnutrennego
vrashcheniya, Russian)
Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 4, pp 707 - 718 (U.S.S.R.)
Received: 5 / 1957

PA - 2797

Reviewed: 6 / 1957

PERIODICAL:

ABSTRACT:

The fundamental problem of the molecular theory of double refraction
in the case of the deformation of block polymers is the determination
of the correlation between the magnitude of the photoelastic coeffi-
cient B and the composition of the polymer chains. In the present
paper the method for the computation of the anisotropy of the chains
is investigated with a symmetric potential of internal rotation.
The problem consists in the computation of $\Delta_{\parallel}(h)$ and $\Delta_{\perp}(h)$ for
chains of the type $(-\text{CH}_2 - \text{CX}_2 -)$ possessing a fixed angle of
valence α and damped internal rotation. h denotes a vector, connect-
ing the beginning and the end of the chain. Δ denotes anisotropy.
 Δ position coordinate system $\xi^{(n)}, \eta^{(n)}, \zeta^{(n)}$ is connected with
every pair of C atoms C-C. The exact computation is carried out and

Card 1/2

SREDOJEVIC, Dimitrije, inz.

Optimum utilization of domestic coals for the needs of
Yugoslav Railroads. Zeleznice Jug 19 no. Il: 19-24 N '63.

1. Clan Redakcionog odbora, "Zeleznice".

SREDOVIC, S.

Some experiences with lapinized vaccine against Hog Cholera

Vet Glasnik 7:513-519 Sept. 1953

SREDZINSKI, J.

"Field and tractor brigades in the Przelom Collective Farm Cooperate well". p.9
(MECHANIZATOR ROLNICZYA, Vol.,2, no.3, March 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
August, 1953, Unci.

MATOUSEK, J.; CUTA, J.; SREFL, J.

Alleles of the B, C, FV, M and SU blood group systems of Bohemian
brindled cattle. Folia biol. 7 no.6:390-394 '61.

1. Czechoslovak Academy of Agricultural Sciences, Laboratory for
the Biology of Livestock Reproduction, Libeeshov.
(BLOOD GROUPS veterinary) (CATTLE blood)

32310, Jr.

Higher speed and quieter passage of trains, basic and immediate tasks
of railway organizations for maintenance of tracks. p. 357.
(ZELZI, No. 10, Oct. 1954. Beograd, Yugoslavia)

Sc: Monthly List of East European Accessions, (EMAI), EC, Vol. 4, no. 4,
Apr 1955, Uncl.

SREJIC, S.

Training and replacing maintenance and repair cadres. p. 149.
ZELENICE. Vol. 11, No. 4, April, 1955. Belgrad.

SOURCE: East European Accessions list, (EEAL) Library of Congress,
Vol. 4, No. 12, Dec. 1955.

SREJTR, JOSEF.

Technicka mechanika tuhych teles. Praha, Vedecko-technicke nakl.
[Technical mechanics of solid bodies]
Vol. 3. 1950.

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

SREJTR, JOSEF

Statika a kinematika; technické mechanika. Josef Srejtr za spolupráce s R. Breptou [et al.
Vyd. 1.] Praha, Statni pedagogicke nakl., 1953. 2 v. (568 p.) (Ucaby texty vysockych
skol) [Statics and kinematics; technical mechanics. Vol. 1. Statics Vol.2. Kinematics]

SO: Monthly List of East European Accession, Vol. 3, No.2, Library of Cong., Feb. 1954, Uncl.

SREJTR. J.

Contribution to research on the statics and kinematics of a body
in space. p. 187.
STROJNICKY SBORNIK, Prague, No. 8, 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

SREJTR, JOSEF

Technicka mechanika. 2. prepracovane vyd. Celostatni vysokoskolska ucebnice.
Praha, Statni nakl. technicke literatury. (Technical mechanics; a university
texbook. 2d rev. ed. bibl., diagrs., footnotes, graphs, tables) Vol. 1.
(Statics) 1957. 530p.

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

SREJTR, Josef, prof., inz., dr.

Mechanisms with rolling pairs. Stroj cas 13 no.4:297-321
'62.

1. Ceske vysoka ucení technicke, Praha.

SREK, L.

Atomic energy.

p. 338 (ELEKTROTECHNIK) Vol. 12, no. 11, Nov. 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

SREK, L.

Atomic energy. (to be cont'd)

p. 2. (ELEKTROTECHNIK) (Praha, Czechoslovakia) Vol. 13, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, May 1958

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652730011-5

SREK, Lubomir

Threaded circuit breakers as replacement of fuses. Elektrotechnik
20 no.1;26 Ja '65.

1. Elektro-Praga National Enterprise, Jablonec nad Nisou.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652730011-5"

YUGOSLAVIA

BUJAS, Z.: SREMEC, B. and VIDACEK, S.; Institute for Medical Research and Occupational Medicine (Institut za medicinska istrazivanja i medicinu rada,) Zagreb.

"Sensation of Fatigue and Its Associations with some other Variables."

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 16, No 2, 1965; pp 111-123.

Abstract [English summary modified]: Data from survey in a meat-cutting plant with 115 workers: degrees, types and times of onset of fatigue as correlated with productivity, job satisfaction, personal habits; discussion of results. Questionnaire form; 3 profile diagrams; ms rec 13 Mar 65.

1/1

SREMAC, D.

Economic importance of connecting the plain sections of Yugoslavia with the sea by roads. p. 15.

Periodical: CESTE I MOSTOVI.

Vol. 7, no. 1, Jan. 1959.

TECHNOLOGY

SO: Monthly List of East European Accessions (EEAI) LC

Vol. 8, No. 4
April 1959, Unclassified.

SREMCEV, T.

Practical lining for disassembling the breechblock of the 7.9mm. M48 rifle.
VOJNO-TEHNICKI GLASNIK. Beograd. Vol. 4, no. 6, June 1956
p. 425.

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 5, no. 12, December 1956

KELEMEN, L., prof.; CSCGOR, I., dr.; SREMPEL, Marta, dr.; KURTHY, Eva

Contribution to the study of capillary permeability in epidemic hepatitis. Med. intern. (Bucur) 17 no.6:683-686 Je'65.

1. Lucrare efectuata in Clinica de boli infectioase, Institutul medico-farmaceutic, Targu Mures (director: prof. L. Kelemen).

SRENGER, M.

SRENGER, M. The electric equipment in the Kakanj Thermoelectric Plant. p.598

Vol. 9, no. 11/12, Nov./Dec. 1956

ELEKTROPRIVERDA

TECHNOLOGY

Beograd

So: East European Accession, Vol. 6, no.3, March 1957

SRENGER, Zeliko, dr.

Eye injuries during the course of the intoxication caused by methyl alcohol inhalation. Lijecn. vjesn. 83 no.9:899-905 '61.

1. Iz Ocne klinike Medicinskog fakulteta Sveucilista u Zagrebu.

(EYE dis) (ALCOHOL METHYL toxicol)
(OCCUPATIONAL DISEASES etiol)

CA

SREPEL, S

Herba euphratii. Pharmacognostical examination B.
Srebel (Zavod farmakog. Farm. fakulteta, Zagreb, Jugoslavia). *Farm. Glasnik* 6, No. 7, 122-8 (1950). The drug "herba euphratii" was studied for its botanical and chem. properties. Physicochem. tests revealed the presence of Ca, reducing sugars, volatile oils, fats, and tannins. Phys. and chem. exams showed that the drug contains ash 8.6, acid-insol. ash 0.1, moisture 9.5, H₂O-extractive substances 25.7, EtOH-extractive substances 15.0 (concd. EtOH), 20.2 (dil. EtOH), inorg. H₂O-sol. substances 5.9, volatile oil 0.7, substances reducing Fehling solution 2.2, and tannins 12.4% (skin method). Tannins give the reactions of gallotannins. The presence of bound gallic acid and free ellagic acid was not observed. The drug contains only small quantities of bitter substances. Wasicky's no. of bitterness could not be detd. The drug contains vitamin C and carotenoids as provitamin A. E. J. Froelich

SREPEL, BRANKA

✓ Pharmacognostic investigations of the balsam of turpentine oil and of colophony (rosin) from the Vipava karst district. Branka Akučić, Jovan Petričić, and Branka Šrepić (Pharmaceutical Fac., Zagreb, Yugoslavia). *Acta Pharm. Jugoslav.* 5, 91-8 (1955) (English summary).—Six samples from 3 different localities were obtained of balsam of *Pinus nigra* of the Vipava karst district in Slovenia, which were worked up to volatile oil (I) and rosin (II) which then were analyzed. The I amounted to 22.0-23.0% and contained 78.7-80.4% α -pinene, which was isolated from the fraction distg. at 87-90°^o mm, according to Wallach's method. All the I and II meet the specifications of the Yugoslav Pharmacopæia; the us of II were detd. at 80° with an Abbe refractometer, and the m.p. with a Kofler stage. The *R*_f values of II were detd. by descending paper chromatography according to the Mills-Werner method (*C.A.* 46, 10639), which was modified in that the paper was impregnated by the vapors of the mobile phase, and the developer changed to 40% PhOH in CHCl₃. A mean *R*_f of 0.85-0.89 was obtained; only one of the samples sepd. into two materials with different *R*_f values. Werner Jacobson

3

WJ

SREPEL, B.

Studies of a less known essential oil from the Croatian
littoral. Bus se Youg 9 no.4/5:109-110 Ag-6 '64.

1. Institute of Pharmacognosy of the Pharmaceutical and
Biochemical Faculty, Zagreb.

S Repel, B-

✓ Comparative chromatographic examinations of plants.
1. *Hyoscyamus niger* and *Hyosyamus albus*. B. Šrepel
(Fuc. Pharm., Zagreb). *Acta Pharm. Jugoslav.* 6, 39-45
(1956).—Comparative exams. of 10% alc. exts. of various parts of both species were carried out by descending chromatography with BuOH: glacial AcOH:H₂O (4:1:5). To sep. the total alkaloids isolated from the plants, descending chromatography with BuOH:CHCl₃:conc'd. HCl:H₂O (1:1:2:2) was used. The chromatograms were developed with a modified Dragendorff reagent. Identical chromatograms were obtained for leaves, roots, and seeds of both species. Significant quantities of scopolamine were found in all chromatograms, while tropine and scopoline were not found. T. Bičan-Fister

SREML, Branka (Zagreb)

Laboratory preparation of smaller amounts of essential oils.
Farmaceut gl Zagreb Supplement (18) no.5:38 '62

1. Institute of Pharmacognosy of the pharmaceutical Faculty,
University of Zagreb, Zagreb.

SCHAFFERLING, Jiri; SREPL, Frantisek

Telemetric equipment for the Van de Graff generator.
Jaderna energie 10 no. 2:57-59 F '64.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie
ved, Rez.

SELIVANOVA, L.M., kandidat meditsinskikh nauk; SHESELI, M.A., professor, zaveduyushchiy.

Esophageal arteries. Khirurgiia no.6:61-65 Je '53. (MLRA 6:8)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii I Leningradskogo meditsinskogo instituta imeni akad. I.P.Pavlova.
(Esophagus) (Arteries)

MIKHAYLOV, G.A., kandidat meditsinskikh nauk; SRESELI, M.A., professor, zaveduyushchiy.

Sites of rupture of the ankle joint capsule and courses of hemorrhagic flow;
anatomico experimental investigation. Vest.khir. 73 no.5:32-34 S-0 '53.
(MIRA 6:11)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii I Leningradskogo
meditsinskogo instituta im. akad. I.P.Pavlova.
(Ankle--Wounds and injuries)

USSR/Human and Animal Morphology. Gastrointestinal Tract.

S

Abs Jour: Ref Zhur-Diol., No 15, 1958, 69566.

Author : Sreseli, M.A.

Inst : Tbilisi Medical Institute.

Title : Variability in Form and Position of the Stomach in
Newborns.

Orig Pub: Tr. Kafedry operativn. khirurgii i topogr. anatomi,
Tbilissk. med. in-t., 1956, Vol. 1, 47-51.

Abstract: In the cadavers of 86 newborn males and 39 females, two extreme types of form and position of the stomach were found. In type I, the long axis of the stomach was vertical, all divisions of the organ were poorly defined, the dimensions were small, the position high, the anterior surface completely covered by the liver. In type II the axis of the stomach was almost horizontal,

Card : 1/2

6

SRESELI, M.

[Differences in the structure of facial veins and their significance in surgery; an anatomical and experimental study] Razlichia v stroenii ven litsa i ikh znachenie v khirurgii; anatomicheskoe i eksperimental'noe issledovanie. [Leningrad] Medgiz, 1957. 132 p.
(VEINS) (FACE--BLOOD SUPPLY) (MIRA 10:11)

SRESELI, M.A. (Leningrad, P-61, ul. Skorokhodova, 32, kv.41); BOLDIAKOV, O.P.
(Leningrad, S-36, Ligovskiy prospekt 31, kv.23)

Importance of the cavernous sinus in the regulation of cerebral
blood circulation. Arkhiv. anat. gist. i embr. 43 no.10:13-18
0'62. (MIRA 17:6)

I.Kafedra operativnoy khirurgii i topograficheskoy anatomii
(zav. - prof. M.A. Sreseli) I Leningradskogo meditsinskogo
instituta imeni Pavlova.

SRESELI, M.A., prof.; KAVERINA, V.V. (Leningrad)

New method of plastic surgery of the facial nerve. Vop.
neirokhir. 27 no.2:47-51 Mr-Ap '63. (MIRA 17:2)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii
(zav. - M.A. Sreseli) I Leningradskogo meditsinskogo insti-
tuta imeni Pavlova.

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CIA-RDP86-00513R001652730011-5

Sov. M. A., prof. KAKHIDZE, I. S., Prof.

David Georgievich Tsvetanov; on his 70th birthday, 1894-.

Vest. khir. 93 no.123245-126 D '64.

(MIRA 18:5)

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CIA-RDP86-00513R001652730011-5"

L 3631-66 EWT(l)/EWT(m)/EWP(t)/EWP(b) LJP(c) JD

ACCESSION NR: AP5024049

UR/0057/65/035/009/1672/1674
621.382.61

53

AUTHOR: Zotova, N. V.; Nasledov, D. N.; Sreseli, O. M.

49,65 49,65 49,55

50

TITLE: n-type gallium arsenide Hall transducers

C

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1672-1674

TOPIC TAGS: Hall effect, Hall constant, electron mobility, gallium arsenide,
magnetic field measurement, high temperature instrument

27 ~7

ABSTRACT: The authors have constructed and tested Hall transducers of highly purified GaAs. The preparation, purification, and doping (if any) of the materials is not discussed. Materials were obtained having Hall constants from 300 to over 1000 cm³/C and electron mobilities from 3500 to 5000 cm²/V sec. Materials with electron concentrations above 10¹⁷ cm⁻³ were unsuitable because of their low Hall constants. The greatest difficulty in fabricating the transducers was encountered in securing adequate metallic contacts. The contacts were of tin and were fused to the semiconductor in vacuum at 400-450 °C for 5 min. These contacts could be used at temperatures up to 210 °C, but the contact resistance was some 30% of the total resistance of the instrument. The eight transducers tested varied slightly in size, a typical one measuring 8.6 x 2.5 x 0.23 mm. For each transducer the current-voltage characteristic was determined, the Hall emf was measured by an open-circ-

Card 1/2

L 3631-66

ACCESSION NR: AP5024049

3

cuit compensation method as a function of magnetic field strength for a fixed value of the current (ranging from 50 to 300 mA), and the temperature coefficient of the Hall emf was measured at a constant magnetic field strength of 10 900 Oe at temperatures from 30 to 210 °C. The temperature coefficient is given for only one of the transducers; this transducer had a sensitivity of 4×10^{-5} V/Oe and a temperature coefficient of 0.029 % per degree. The principal advantage of the GaAs Hall transducers is that they combine a low temperature coefficient over a wide temperature range with a reasonable sensitivity. Development of better metallic contacts will make it possible to increase the temperature range over which the instrument can be used and also to increase the current and thereby the sensitivity. Orig. art. has: 3 formulas, 2 figures, and 2 tables.

ASSOCIATION: Fiziko-tehnicheskiy institut im. A.F.Ioffe AN SSSR, Leningrad
(Physico-technical Institute, AN SSSR)

SUBMITTED: 21Jan65

ENCL: 00

SUB CODE: EM, TD

NO REF SOV: 004

OTHER: 000

BVK
Card 2/2

L 45988-56 EWT(1)
ACC NR: AP6030161

SOURCE CODE: UR/0120/66/000/004/0214/0215

AUTHOR: Belanova, A. A.; Nasledov, D. N.; Sreseli, O. M.

45
B

ORG: Physico-Technical Institute AN SSSR, Leningrad (Fiziko-tehnicheskiy institut
AN SSSR)

TITLE: Thermostable Hall generators

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 214-215

TOPIC TAGS: Hall generator, Hall effect

ABSTRACT: Materials in the manufacture of Hall generators and characteristics of the latter are described. Source material: GaAs having a concentration of $(3-8)10^{16}$ per cm³ and a mobility of 3000 cm²/v sec. Sides ratio: 2 to 3; plate thickness, 0.12--0.2 mm; nonrectifying contacts. Characteristics: temperature coefficient, 0.01--0.03% per 1C within 0--300C. Voltage sensitivity, 10--50 μ v/oer. Plots of output voltage vs. magnetic-field strength and output voltage vs. temperature (0--300C) are shown. Orig. art. has: 2 figures. [03]

SUB CODE: 09 / SUBM DATE: 13Jul65 / ORIG REF: 000 / ATD PRESS: 5087

UDC: 621.382.61

Card 1/1 pb

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Trichinosis epidemic in the village Milakovac in Zica District
in 1954. Glas.hig.inst., Beogr. 4 no.1-2:33-40 Jan-June '55.

1. Higijenski Zavod Kraljevo-upravnik: dr. Dragoljub Popovic.
Gradska bolnica Kraljevo-upravnik: dr. Borisav Sretenovic.

(TRICHINOSIS, epidemiol.
in Serbia, Yugosl., clin.aspects(Ser))

SRBINOVIC, D. ; ANDREWSKI, F.

Power sources for feeding the AN/GRC-9 radio station under field conditions of operation. p. 833.

VEJNO-TEHNIKI GLASNIK. Beograd, Yugoslavia. Vol. 3, no. 11, Nov. 1955.

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Uncl.

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Preventing jamming in the 20-mm M 38 antiaircraft gun. p. 591.
Vojno-tehnicki glasnik. Beograd.

Vol. 3, No. 7, July 1955

SOURCE: East European Accessions List, (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

SRETENOVIC, Mihailo S., dr.

Histopathological changes in kala-azar. Srpski arh. celok lek. 82
no.9:1069-1075 Sept 54.

1. Institut za patologiju Medicinskog fakulteta u Beogradu, upravnik
prof. dr Ksenofon Sahovic.
(LEISHMANIASIS, pathol.)

PERISIC, M.; SRETENOVIC, M.

The study of Echinococci in human brain. Srpski arh. celok.
lek. 83 no.7-8:747-752 July-Aug 55.

1. Neurohirurska klinika Medicinskog fakulteta u Beogradu.
Upravnik: Slobodan Kostic. Mikrobioloski institut Medicinskog
fakulteta u Beogradu; Upravnik: Milutin Djurisis.

(ECHINOCOCCOSIS,

brain, clin. aspects & surg. (Ser))

(BRAIN, dis.

echinococcosis, clin. aspects & surg. (Ser))

MILOVANOVIC, Milan; SRETENOVIC, Mihajlo

Pathology of appendix caused by *Enterobius vermicularis*.
Srpski arh. celok. lek. 84 no.2:168-175 Feb 56.

1. Mikrobioloski institut Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr. Milutin Djurisic.

(APPENDICITIS, bacteriol.

Enterobius vermicularis, incidence in child. &
adults (Ser))

(ENTEROBIUS,
vermicularis, incidence in appendicitis in child.
& adults (Ser))

YUGOSLAVIA

M. MIKOVIC, M. SRETERNOVIC, B. STAMBOLIC and A. JANKOVIC-BRKBOLIC
Department of Microbiology of Medical Faculty (Mikrobiolski institut
Medicinskog fakulteta) and Gynecologic Outpatients Unit of the First
People's Health Institute (Dispanser za zene i Doma narodnog zdravlja)
Belgrade.

"A Study of Resistance of Trichomonas vaginalis Under Varying Conditions."
Belgrade, Higijena, Vol 14, No 2-3-4, 1952; pp 139-139.

Abstract [German summary modified]: A study of the survival of unspecified number of strains of *T. vaginalis* on various solid substances (fabrics, paper, wood, metal) indicates main factor is amount of fluid available: rapid drying destroys the flagellate. Study in various natural mineral waters: susceptibility varies with strain. Flagellates were found in 34% of urethrae of sexual partners of women with chronic trichomonal vaginitis (no further data on this topic.) Conclusion: coital or femite transmission is likely, s/p or public bath less likely. Three Yugoslav, 3 domestic references.

*1:

[...]

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652730011-5

MILAVKOVIC, Milan; JAKOVIĆ-BUBOLIĆ, Ana; SRBINOVIC, Mihailo

Contribution to the study of the problem of candidiasis. Srpski
arh. celok. lek. 91 no.12:1141-1155. 9 '63.

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Vol. 4, no. 7, July 1955 TEKSTIL Zagreb, Yugoslavia

SO: Monthly List of East European Accessions, (EEL), LC, Vol. 5, No. 3
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Vol. 4, no. 8, Aug. 1955

TEKSTIL

Zagreb, Yugoslavia

So: Eastern European Accession cl. 5 No. 4 April 1956

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SRETENOVIC, M. Report from markets of raw materials. p. 1159.

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SRETOENOVIC, M.

Report from the market for textile raw materials, p. 46

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SRETENOVIC, M.

Report from the raw-materials market. p. 13⁴.
Vol. 5, No. 2, Feb. 1956. TEKSTIL. Zagreb,
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SOURCE: East European Accessions List, (EEAL) Library
of Congress, Vol. 5, No. 8, August, 1956.

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Report from the raw material market. p. 289. TEKSTIL. (Drustvo
inzenjera i tehnicara tekstilaca Hrvatske) Zagreb. Vol. 5, no. 4, Apr. 1956.

So. East European Accessions List Vol. 5, No. 9 September, 1956

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Report from the raw materials market. p. 471. Consumption of textiles.
p. 475. Number of persons employed in the textile industry. p. 476.
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5, no. 6, June 1956.

SOURCE: East Europe Accession List (EEAL),
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SRBETENOVIC, M.

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(Tekstil, Vol. 6, no. 2, Feb. 1957, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) L^c, Vol. 6, no. 7, July 1957, Uncl.

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(Tekstil, Vol. 6, no. 3, March, 1957. Zagreb, Yugoslavia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6, No. 7,
July 1957. Uncl.

SRMENOVIC, M.

A survey of the raw-materials market, p. 453.
(Tekstil, Vol. 6, No. 5, May 1957, Zagreb, Yugoslavia)

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SRFILMOVIC, M.

The raw materials market.p. 558.

(TEKSTIL. Vol. 6, No. 6, June 1957, Zagreb, Yugoslavia)

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The raw materials market. p. 803.
(GLASNIK, Vol. 6, No. 9, Sept. 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
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SERBIAN C. M.

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p. 375 (Tekstil. Vol. 6, no. 1, Oct. 1957. Zagreb, Yugoslavia)

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SRETERNOVIC, M.

TECHNOLOGY

SRETERNOVIC, M. The raw materials market. p. 977

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